

## **In The Specification:**

Page 1, above line 1, insert as follows:

### **-- Background of the Invention**

#### **1. Field of the Invention –**

replace the first paragraph, lines 1-2, with a new paragraph as follows:

-- The present invention relates to a gas friction pump ~~according to the preamble of the first claim~~ including stationary pump-active elements and rotatable pump-active elements cooperating with the stationary pump-active elements. The rotatable pump-active elements are secured on a rotatable rotor shaft. The rotor shaft and the rotatable pump-active elements form components of the rotor. The rotor shaft is supported by two, spaced from each other, radial bearings of which one is located closer to the center of gravity of the rotor, and by an axial bearing. --;

between lines 2 and 3, insert as follows:

#### **-- Description of the Prior Art --.**

Page 2, third paragraph, lines 9-12, replace with a new paragraph as follows:

-- The simplest variant of a support is a ball bearing. Because of large forces and ~~rational~~ rotational speeds in the upper bearing, oil lubrication and cooling are indispensable. Despite this, the service life of a ball bearing is limited, and a replacement should take place in regular intervals. --.

Page 5, between lines 7 and 8 insert as follows:

**-- Summary of the Invention --;**

second paragraph, line 8, replace with a new paragraph as follows:

-- The object of the invention is achieved by ~~features of the first claim~~ by forming the radial bearing, which is located closer to the gravity center of the rotor, as a gas bearing. --

Pages 5-6, replace the paragraph bridging these pages, page 5, last two lines, page 6, lines 1-4, with a new paragraph as follows:

-- By using only one gas radial bearing, the need in a high-precision centering of the support points is eliminated. On the other hand, with a construction in which at least one of the bearings and/or the drive is/are formed as an independent module or two bearings are formed as independent module, ~~according to claims 3 through 6~~ the high-precision centering and, thereby, the use of other gas bearings become possible. For implementation of the invention, all

types of gas bearing bearings can be used, in particular aerodynamic and aerostatic bearings. --;

between lines 4 and 5 insert as follows:

**-- Brief Description of the Drawings --**

In the drawings:

Fig. 1 shows a schematic view of gas friction pump according to the present invention.

**Detailed Description of the Preferred Embodiment --.**